

# Re: em driver sending bad packet lengths

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2007-10/msg00101.html>

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- *From:* "Jack Vogel" <jfvogel@xxxxxxxxxx>
  - *Date:* Fri, 12 Oct 2007 12:54:26 -0700
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You should a couple different adapters below, are you saying that its just one of them, can you try different ones to see if its specific.

Also, would you be able to test my latest driver to see if it still happens?

Cheers,

Jack

On 10/12/07, Kris Kennaway <kris@xxxxxxxxxxxx> wrote:

I am seeing the em driver on 7.0 sending packets with bad UDP (and apparently sometimes IP) packet length fields. This is from UDP NFS traffic (90MB/sec over gige). These packets are dropped on reception by the kernel and counted.

Here is a tcpdump trace showing some bad packets:

```
17:50:27.912629 IP bad-len 0
17:50:27.912748 IP bad-len 0
17:50:27.912764 IP bad-len 0
```

I havent yet caught a better tcpdump of the UDP bad packets but they are logged by netstat -s

```
hydra1# netstat -s -p udp
udp:
120091992 datagrams received
0 with incomplete header
1775 with bad data length field
^^^
14840 with bad checksum
0 with no checksum
16 dropped due to no socket
258 broadcast/multicast datagrams undelivered
0 dropped due to full socket buffers
0 not for hashed pcb
```

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120075103 delivered  
120190737 datagrams output  
0 times multicast source filter matched

Disabling txcsup and rxcsup didnt help.

em0: <Intel(R) PRO/1000 Network Connection Version – 6.5.3> port  
0x2000–0x201f mem 0xd8a00000–0xd8a1ffff irq 18 at device 0.0 on pci4  
em0: Ethernet address: 00:30:48:33:54:ca  
em0: [FILTER]

em0@pci4:0:0: class=0x020000 card=0x000015d9 chip=0x10968086 rev=0x01  
hdr=0x00  
vendor = 'Intel Corporation'  
device = 'PRO/1000 EB Network Connection'  
class = network  
subclass = ethernet

em0: <Intel(R) PRO/1000 Network Connection Version – 6.5.3> port  
0x4000–0x401f mem 0xe1000000–0xe101ffff irq 16 at device 0.0 on pci18  
em0: Ethernet address: 00:30:48:8f:55:48  
em0: [FILTER]

em0@pci18:0:0: class=0x020000 card=0x108c15d9 chip=0x108c8086 rev=0x03  
hdr=0x00  
vendor = 'Intel Corporation'  
device = 'PRO/1000 PM'  
class = network  
subclass = ethernet

The second-order effect from this is that our NFS client currently  
misbehaves when UDP packets are dropped, and this leads to data corruption.

Kris

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